BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Subsidiary Diploma in Construction and the Built Environment Pearson BTEC International Level 3 Foundation Diploma in Construction and the Built Environment Pearson BTEC International Level 3 Diploma in Construction and the Built Environment Pearson BTEC International Level 3 Extended Diploma in Construction and the Built Environment
Unit number and title	**Unit 19: Projects in Construction**
Learning aim(s) (For NQF only)	**A:** Examine the design of a construction Project **B:** Investigate methods and techniques used in a construction project **C:** Explore the impact of a construction project
Assignment title	Analysis of a construction project
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You have managed to secure a technical apprenticeship with a regional contractor. Your old school have heard of your success and have invited you back to talk to the year 10 students about careers in construction. The brief is quite wide ranging and they have indicated you have 30 minutes available to you. They have also stated they would like some supporting documentation to hand out to their students. The only stipulation is that your talk focuses on either a famous national project or a local project that the students can relate to. You have discussed this with your supervisor at work and they have agreed to give you the time to undertake this task as they feel it is advantageous to them and the school. During your discussion, your supervisor suggested you draw up a list of 3 famous and 3 local projects that you could possibly use to provide an overview of the whole of the construction industry, from inception to, design and construction concluding in the end use and the impact of the project on the area it is situated. Once you have selected your projects you will have another meeting with your supervisor to agree the best one to use. A suitable project would include sports stadia, shopping centres, schools, hospitals. It needs to be something relatively recent and something you can obtain a lot of information on. You will be required to undertake extensive research on all aspects of the design, construction and use of the building.
Task 1	Once you have agreed a suitable project with your tutor you are required to produce and present a 10-minute presentation with supporting hand-outs. Your presentation will address the design phase of the project you have selected. During the presentation you should consider: • Local aesthetics (vernacular)

	• Functional requirements • Design opportunities • Design solutions • Success of the design • Reactions to the completed scheme To support your presentation, you are required to produce presentation notes to cover the oral aspects of your presentation and a booklet/guide to the project. You should consider all aspects covered in your presentation, but it is not intended to be a copy of your presentation slides. The booklet should be illustrative and include a lot of annotated pictures of the project, both before, during and after (in use). The format for both the presentation and the booklet are your choice. Remember your target audience and think how you can get your message across to them.
Checklist of evidence required	To successfully undertake this assignment, you will have produced and presented a 10-minute presentation on the design and functionality of the project you have selected. Your presentation will consider the relevant aspects of the local area, the design and whether it has worked now that it is built. This will be supported by an illustrated guide to the design options, opportunities and choices. You will consider the final design and discuss whether this worked as originally intended. You should also use images of other buildings in the area to illustrate the choices made by the designer.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
19/A.P1	Explain how the design of the project meets functional requirements.
19/A.P2	Explain how the design of the project meets aesthetic requirements.
19/A.M1	Discuss the design choices made in meeting the functional and aesthetic requirements of the project.
19/A.D1	Evaluate the design choices made in meeting the functional and aesthetic requirements of the project and the needs of stakeholders.

Task 2	Prepare and present a 10-minute presentation with supporting documentation on the methods of construction and materials used for your project. Your presentation should consider: • Different options available for construction • Methods and techniques used • Different options for the material selection • Material choice • Why the developer and contractor chose the

	methods, techniques and materials they did • Appropriateness of the choices made for the type of building and local area You should consider whether the final solutions chosen are fit for use and purpose. To support your presentation, you are required to produce a booklet/guide to the project. You should consider all aspects covered in your presentation, but it is not intended to be a copy of your presentation slides. The booklet should be illustrative and include a lot of annotated pictures of the project, both before and after where relevant. You should also use images of other buildings in the area and consider any similarities and differences in the material choices and the methods adopted to construct the building. The format for both the presentation and the booklet are your choice. Remember your target audience and think how you can get your message across to them.
Checklist of evidence required	To successfully undertake this assignment, you will have produced and presented a 10-minute presentation on the different methods of construction and material selection for the project you have selected. Your presentation will consider all the different options available and analyse the rationale for the selections they made. This will be supported by presentation notes to cover the oral aspects of your presentation and an illustrated guide to the construction methods and material choices for the project. You will consider the final design and discuss whether this worked as originally intended. The guide will be illustrated and links made to other buildings in the area of a similar, size, scale and nature.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
19/B.P3	Explain the methods and techniques used in the construction of the project.
19/B.P4	Explain the selection of materials used in the construction of the project.
19/B.M2	Assess the methods, techniques and materials used in the construction of the project.
19/B.D2	Justify the methods, techniques and materials used in the construction of the project.

Task 3	Prepare and present a 10-minute presentation on the overall impact of the project. This is an opportunity for you to consider the impact construction has on the local environment and population. Within your presentation you should review, the overall success of the project, taking into consideration the initial design ideas and concepts and how the finished project has achieved this. You must take into

	consideration the economic, societal and environmental factors. To support your presentation, you are required to produce a booklet/guide to the project. You should consider all aspects covered in your presentation, but it is not intended to be a copy of your presentation slides. The booklet should be illustrative and include a lot of annotated pictures of the project. You can also use information from the local media and gather public opinion on the project. The format for both the presentation and the booklet are your choice. Remember your target audience and think how you can get your message across to them.
Checklist of evidence required	To successfully undertake this assignment, you will have produced and presented a 10-minute presentation on the impact of the project you have selected. Your presentation will consider all the different options available and analyse the rationale for the selections they made. This will be supported by presentation notes to cover the oral aspects of your presentation and an illustrated guide that highlights the overall impact of a project. Where appropriate suitable information, such as news articles and other media stories can be used to address some of the considerations. A survey of the local residents would also be a valuable tool for assessing the impact to support your overall presentation.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
19/C.P5	Explain the economic impacts of the construction project.
19/C.P6	Describe the societal impacts of the construction project.
19/C.P7	Explain the environmental impacts of the construction project.
19/C.M3	Assess the economic, societal and environmental impacts of the construction project.
1/C.D3	Evaluate the overall impact of the construction project.

Sources of information to support you with this Assignment	Pearson BTEC National Construction Student Book Authors: Simon Topliss, Mike Hurst, Simon Cummings. Sohrab Donyavi www.planningportal.co.uk Hetreed J, Ross A – *Architects Pocket Book,* (Routledge, 2107) ISBN 978-1138643994 Further Resources may be found at www.edexcel.com/resources/Pages/default.aspx.
Other assessment materials attached to	*eg, work sheets, risk assessments, case study*

this Assignment Brief	